

Crichton - Cross - Strochak

1 expert on that.

2 Q. You have a general sense that the U.S. claims are largely  
3 products liability type claims?

4 A. Yes, to that extent I know they would be mostly product  
5 liability claims.

6 Q. And that's the difference between the U.S. and the U. K.  
7 claims, correct?

8 A. Yes.

9 Q. Now, in the U. K. on products liability claims, would it  
10 be more typical for the company to have some type of defense?

11 A. We've received -- we've not even received many, let alone  
12 settled many. The ones we have received, we've usually had  
13 quite good evidence that the person has been exposed to one of  
14 our products. And there are a number that are still, that  
15 have been received since I went into administration but we  
16 haven't been doing any investigation since we went into  
17 administration so I couldn't say with those whether there were  
18 any out there that are capable of being defended. But,  
19 generally speaking, there's really very good evidence that  
20 there's a T&N product to which they've been exposed.

21 Q. When we met in New York a few months ago, you told me  
22 that you thought Chase had provided its repository of  
23 documents to pretty much anyone who wanted them I think were  
24 the words that you used.

25 A. That was a perception.

Crichton - Cross - Strochak

1 Q. That was your perception?

2 A. That was my perception. It might have been wrong but  
3 that was the perception at the time.

4 Q. Has it changed at all?

5 A. No, my perception then was that they were popping up all  
6 over the place, the documents from Chase, because you could  
7 see the Chase reel numbers on the top.

8 Q. Let me just ask you, if we could put Exhibit 7,  
9 Plaintiffs' Exhibit 7 on the screen.

10 MR. STROCHAK: I'm afraid I must have mistaken the  
11 number. I'll come back to it. I'm sorry. I apologize, your  
12 Honor.

13 BY MR. STROCHAK:

14 Q. This is Plaintiffs' Exhibit 7, if you can see it on the  
15 screen in front of you, that was introduced into evidence this  
16 morning on Mr. Hanly's testimony. And at the top, all I  
17 really wanted to call your attention to was what appeared to  
18 be numbers on the top of the first page. Is that the  
19 numbering system you were refer to that designates this as a  
20 document that came out of the Chase repository?

21 A. Well, that was the symbol system that Chase used, yes, it  
22 would have those figures on the top.

23 Q. So you recognize this marking as indicating this document  
24 likely came from the Chase repository?

25 A. I can't be absolutely certain about that, but that would

Crichton - Cross - Strochak

1 be what I would say, yes.

2 Q. Let me ask you a few questions about the publication of  
3 Mr. Tweedale's book. Was the company aware when this book was  
4 published in 2000?

5 A. Yes.

6 Q. And what was the company's reaction to the publication of  
7 the book?

8 A. Well, by that time we were part of Federal Mogul so they  
9 had quite an interest in it.

10 Q. Who's they?

11 A. Federal Mogul had quite an interest in it, possibly  
12 because it didn't necessarily know the history of T&N quite at  
13 that stage as they probably did later so they were quite  
14 interested. I think I had to order a lot of copies of Mr.  
15 Tweedale's book.

16 Q. From your perspective -- from the Turner & Newall  
17 perspective, was it a surprising publication?

18 A. I'm not sure what you mean by surprising. The contents  
19 or the fact it was published?

20 Q. Yes, did the contents take you by surprise, that is, as  
21 an employee of T&N?

22 A. No, not particularly.

23 Q. There was nothing particular in the Tweedale book that  
24 you had not seen before in any way?

25 A. No. No. It was just put in an easy to follow way

—Crichton - Cross - Strochak—

1 really.

2 Q. Now, when we met in March in New York, I believe you told  
3 me that the Tweedale book had no effect on litigation against  
4 T&N, is that correct?

5 A. In the U. K. I would say so.

6 Q. And you had seen everything in there before in the  
7 context of U. K. litigation?

8 A. Yes.

9 Q. And there was nothing new in the book as respects the  
10 company's ability to defend itself against claims in the U.  
11 K.?

12 A. No.

13 MR. STROCHAK: Thank you very much, Ms. Crichton. I  
14 have no further questions.

15 THE COURT: Any redirect?

16 MR. BISSELL: No, your Honor.

17 THE COURT: Thank you, Ms. Crichton. You're excused.  
18 (Witness Excused.)

19 MR. INSELBUCH: Your Honor, I would ask Mr. Finch to  
20 call our next witness.

21 THE COURT: Okay.

22 MR. FINCH: Our next witness, your Honor, is Dr.  
23 Laura Welch.

24 But before we put Dr. Welch on the stand, who is the  
25 first expert witness the Court will hear from today, we would

—Crichton - Cross - Strochak—

1 like to offer into evidence the deposition designations and  
2 counter designations for Mr. William Hanlon. We have prepared  
3 a package for the Court that contains the deposition  
4 designations marked by each party. The plaintiffs are in blue  
5 and the defendants are in green. The entire deposition is  
6 there. The exhibits that were used in the deposition have  
7 been labeled both with his deposition exhibit number and with  
8 his trial exhibit number and there's a stipulation that these  
9 exhibits will be admissible and admitted. The exhibits are  
10 Plaintiffs' Exhibit 3, which is already in evidence.  
11 Plaintiffs' Exhibit 52, which is already in evidence.  
12 Defendant's Exhibit 75. Plaintiffs' Exhibit 47, which has not  
13 yet been offered into evidence, we would offer that at this  
14 time, your Honor. Plaintiffs' Exhibit 20 --

15 THE COURT: Do you have 75?

16 MR. FINCH: Defendant's Exhibit 75.

17 THE COURT: Oh.

18 MR. FINCH: It's defendant's Exhibit 75. Plaintiffs'  
19 Exhibit 47. Plaintiffs' Exhibit 20, which is already in  
20 evidence. Plaintiffs' Exhibit 46, which we offer at this  
21 time. And the last exhibit in the binder is defendant's  
22 Exhibit 76. We would offer that testimony at this time, your  
23 Honor. Mr. Hanlon is the lawyer for, one of the lawyers for  
24 the CCR that Mr. Hanly mentioned in his testimony and at this  
25 point.

Crichton - Cross - Strochak

1 THE COURT: Any objection to P-46 or P-47?

2 MR. FRIEDMAN: No, your Honor.

3 THE COURT: P-46 and P 47 are in evidence.

4 (PLAINTIFF EXHIBITS P-46 AND P-47 WERE RECEIVED IN EVIDENCE.)

5 THE COURT: Other than that, the other two exhibits  
6 are defense exhibits that have been marked?

7 MR. FINCH: Yes. We have no objection to those  
8 coming in.

9 MR. FRIEDMAN: I offer them into evidence, your  
10 Honor.

11 THE COURT: Let me make sure I have them. There's  
12 76 --

13 MR. FINCH: It's 75 and 76, your Honor.

14 THE COURT: The defendant's 75 and 76 are now also in  
15 evidence.

16 (DEFENDANT EXHIBITS D-75 AND D-76 WERE RECEIVED IN EVIDENCE.)

17 THE COURT: There are other Hanlon deposition  
18 exhibits listed here, we are not including those at this time?

19 MR. FINCH: Your Honor, there are seven exhibits of  
20 the Hanlon deposition, all of them have either been previously  
21 admitted or you just admitted them.

22 THE COURT: 77, 78?

23 MR. FINCH: Those are place holder exhibits on the  
24 defendant's list which are taken up by the plaintiff's  
25 exhibits. The exhibits referred today defendant exhibit list

—Welch - Direct - Finch—

1 77, 78 were place holders that they put on there because we  
2 took Mr. Hanlon's deposition the day after the exhibit lists  
3 were due.

4 THE COURT: All right.

5 MR. FINCH: At this point, your Honor, we call Dr.  
6 Laura Welch. And we have an exhibit binder for her as well.  
7 (LAURA STEWARD WELCH, WAS DULY SWORN AND TESTIFIED AS  
8 FOLLOWS:)

9 THE COURT: Have a seat.

10 THE WITNESS: Thank you.

11 (DIRECT EXAMINATION OF LAURA STEWART WELCH BY MR. FINCH:)

12 Q. Good afternoon, Dr. Welch.

13 Could you please describe for the Court your  
14 educational background?

15 A. Yes. I got a Bachelor's degree in biology from  
16 Swathmore College and my medical degree from the State  
17 University of New York at Stony Brook. I did a residency in  
18 internal medicine at Montefiore Hospital in the Bronx, which  
19 is part of the Albert Einstein School of Medicine. And prior  
20 to that, had faculty positions at several medical schools.

21 Q. Could you scoot closer to the microphone and try to keep  
22 your voice up? Bend it down to you.

23 A. Is that better?

24 Q. That's better for my purposes.

25 A. Okay.

Welch - Direct - Finch

1 Q. Are you licensed to practice medicine?

2 A. Yes, in the State of Maryland.

3 Q. When did you become licensed to practice medicine?

4 A. In 1981.

5 Q. And what is your area of expertise in medicine?

6 A. I'm board certified both in internal medicine and  
7 occupational medicine, and my clinical practice and work for  
8 my whole career has included both.

9 Q. What is occupational medicine?

10 A. It's a specialty that looks at the relationship between  
11 work and illness or even more broadly between work and health.  
12 So it's whether people who have certain diseases can do  
13 particular jobs and whether some jobs cause certain diseases,  
14 as well as exposure to environment, same relationship.

15 Q. What did you have to do to become board certified in  
16 occupational medicine?

17 A. Well, what I did was there were two -- a couple of  
18 different pathways depending when you graduated medical  
19 school. And because I was board certified in internal  
20 medicine, then I did advanced training public health. I had  
21 six years experience in the field and was permitted by the  
22 board to sit for the examination, which I took and passed.

23 Q. When did -- what did you do to become board certified in  
24 internal medicine?

25 A. That was only one pathway to that, and that is to take an



—Welch - Direct - Finch—

1 approved residency program, which is a three-year inpatient  
2 and outpatient combination training, which I did at  
3 Montefiore, New York, and take an examination to become board  
4 certified.

5 Q. When did you obtain your board certifications?

6 A. Internal medicine, it was 1981. Occupational medicine it  
7 was 1990.

8 Q. What is epidemiology?

9 A. It's the study of patterns of disease in people.

10 Q. Could you describe to the judge what training you have  
11 had in epidemiology?

12 A. Well, everyone who goes through medical training gets  
13 some training in epidemiology in medical school. And then in  
14 addition, I had advanced training at the Columbia School of  
15 Public Health in epidemiology, that was part of the board  
16 certification in occupational medicine.

17 Q. Could you slowly describe what use you have made in  
18 epidemiology in the course of your career?

19 A. Well, since I finished my residency up until about two  
20 years ago, I was on the faculty of a medical school, I still  
21 actually have adjunct position, but was full-time faculty up  
22 to that time. And a substantial part of my practice was  
23 research in occupational health and a large proportion of that  
24 was epidemiology, the way we understand whether exposures at  
25 work or in the environment cause diseases by looking at the

Welch - Direct - Finch

1 sort of natural experiment of people who are exposed to that  
2 and comparing those diseases that we see in exposed groups to  
3 unexposed groups, and that's really a very simple explanation  
4 of what epidemiology is. And I've done a number of  
5 epidemiologic studies looking at other ranges of toxins in my  
6 career.

7 Q. Including asbestos?

8 A. Including asbestos.

9 Q. Since graduating from medical school, could you give the  
10 Court a brief run-down of what your professional experience  
11 has been?

12 A. Yeah. After I finished medical school and my residency  
13 at Einstein, I took a position on the faculty at Einstein and  
14 at the staff of Montefiore Hospital in the Bronx, I was there  
15 for about 18 months. And then I had a position at Yale  
16 University School of Medicine. And then in 1985 I moved to  
17 Washington, D.C. to take a position at George Washington  
18 University. I stayed there on the full-time faculty till '97  
19 when I then moved to position at Washington Hospital Center,  
20 which is a largest teaching hospital in D.C. and kept my  
21 faculty appoint at GW. And, as I mentioned, about two years  
22 ago I changed careers a little bit and took a job that's  
23 focusing solely on research in the area of occupational  
24 health.

25 Q. In your professional career, Dr. Welch, when was the

Welch - Direct - Finch

1 first time you had any involvement in the diagnosis and

2 treatment of asbestos-related diseases?

3 A. It was during my residency, so probably around 1980.

4 Q. And can you describe to the Court what your involvement

5 has been with patients who suffer from asbestos-related

6 diseases since that time?

7 A. It's been a big part of my clinical practice and also a

8 big part of my research. When I was in New Haven, which was

9 in the early '80's, I saw a number of people with

10 asbestos-related disease from the construction trades in New

11 Haven, and also I ran satellite medical facility for Yale in

12 New London where we saw people who worked the Groten Shipyard.

13 And since that time both at Yale and GW and at the Hospital

14 Center, I had a clinical practice where a good number of the

15 people in my practice were people exposed to asbestos coming

16 to me to see whether they had any disease from that asbestos

17 exposure and what to do about it.

18 Q. What types of asbestos diseases in patients did you see

19 and treat?

20 A. A good number of people with asbestosis and like other

21 asbestosis relate pleural plaque, which is the other

22 non-malignant manifestation with asbestos disease. I did see

23 a number of people with mesothelioma and some people with lung

24 cancer or colon cancer related to asbestos.

25 Q. As part of what you did as an occupational medical

Welch - Direct - Finch

1 doctor, did you have to read and interpret X-rays for purposes  
2 of diagnosing asbestos-related diseases?

3 A. Yes.

4 Q. And would that include asbestosis and the other  
5 non-malignant diseases?

6 A. Yes.

7 Q. Are you a -- first of all, can you tell the Court what is  
8 a B Reader?

9 A. A B Reader, that's a designation given by NIOSH, the  
10 National Institute of Occupational Safety and Health, for  
11 people who have passed a test that NIOSH gives. And the test  
12 is for proficiency in the use of the International Labor  
13 Organization classification of pneumoconiosis. Anybody in the  
14 room who can say that gets a prize. But the ILO set up this  
15 system to standardize reading of x-rays for dust diseases in  
16 the 1970s and NIOSH uses a certification. A lot of the other  
17 countries don't have a certification but NIOSH has a  
18 certification test to demonstrate that you can use the system,  
19 the classification system and have certain proficiency to  
20 match the correct x-ray with the correct answer.

21 Q. What does what one to do to become a B Reader?

22 A. You have to go take at the test. And most people who go  
23 take it Morgantown, West Virginia to take it, although it's  
24 occasionally given in conjunction with a NIOSH course around  
25 the country.

Welch - Direct - Finch

1 Q. Are you a B Reader?

2 A. No, I'm not.

3 Q. Why not?

4 A. Well, in the early '80's I took the course and took the  
5 test and I didn't pass it. And then I basically came to  
6 realize I didn't need it as part of my practice, I could use  
7 the x-rays, interpret the x-rays based on the knowledge and  
8 experience I had and put that in the diagnosis without doing  
9 the radiologic diagnosis.

10 Q. As part of your clinical practice in occupational  
11 medicine, did you have to read and interpret pulmonary  
12 function tests?

13 A. Yes, on a regular basis.

14 Q. And could you describe to the Court how that process, the  
15 pulmonary function test process works?

16 A. Well, there's really two ways in which pulmonary function  
17 tests get done. One is called the simple spirometer, which is  
18 done in a physician's office generally or can be done in a  
19 mobile unit at a workplace, if necessary. And then there's  
20 more extensive testing that's done in a hospital laboratory  
21 called total lung capacity and diffusion capacity, which  
22 measure -- they measure lung function, they measure different  
23 aspects of it. The tests are usually complimentary to each  
24 other. And I was trained how to interpret those tests in  
25 medical school and worked, when I was in the hospitals, worked

Welch - Direct - Finch

1 closely with the pulmonary physicians to expand my knowledge  
2 of that.

3 Q. Could you describe for the Court the teaching  
4 appointments that you've had?

5 A. I was -- I had a faculty appointment at Einstein, at  
6 Yale, and at George Washington University, as well as teaching  
7 appointments at those hospitals. So medical staff at Yale,  
8 New Haven Hospital, George Washington University, and then  
9 Washington Hospital Center.

10 Q. And have you received any grants from the government  
11 concerning asbestos disease specifically?

12 A. Yes, I have.

13 Q. Can you describe to the Court what those are?

14 A. Yes. I had a grant from NIOSH, the National Institute,  
15 to look at causes of death related to asbestos among  
16 sheetmetal workers. And I've had a series of grants from the  
17 Department of Energy to look for asbestos disease and other  
18 occupational diseases among construction workers who worked a  
19 the DEO Atomic Weapons Complex.

20 Q. Have your sheetmetal worker studies continued up until  
21 the present time?

22 A. Yes.

23 Q. And have you published articles in peer reviewed medical  
24 journals concerning asbestos-related diseases?

25 A. Yes.

—Welch - Direct - Finch—

1 Q. And have you published articles relating to the  
2 phenomenon of B Reader intervariability?

3 A. Yes, I have.

4 Q. And can you describe for the Court what that is?

5 A. I mentioned the B Reader system is an examination system  
6 that is intended to bring people's interpretation of x-rays  
7 closer together to meet a certain standard. But even for  
8 people who have been trained in the use of the system and  
9 passed the test, there is a lot of variation between how the  
10 same reader interprets the same x-ray again over time with  
11 repetitive reading, which is called intra-reader variability  
12 and between different readers looking at the same x-ray, which  
13 is inter-reader variability. The system -- like I said, the  
14 system, the ILO system was designed to reduce that variability  
15 but there's still a substantial amount between readers.

16 Q. We'll get to the concept later when we start delving into  
17 your expert opinions. But just to go on laying the groundwork  
18 for your qualifications, can you describe the peer review  
19 medical journals in which you've publish papers relating to  
20 asbestos-related disease and the diagnosis thereof?

21 A. In the journal called Chest. The American Journal of  
22 Industrial Medicine. I think the Journal of Occupational  
23 Environmental medicine as well.

24 Q. Have you ever published or written any chapters or  
25 textbooks or books relating to asbestos disease?

Welch - Direct - Finch

1 A. Yes, I have.

2 Q. And what would that be?

3 A. There's a -- there's a book called Rosenstock and Cullen,  
4 Clinical Occupational Medicine, Hazardous Material Medical  
5 Toxicology by Sullivan and Kreiger, and then there's a family  
6 medicine text Principals of Ambulatory Medicine, I have  
7 chapters in those that have been updated several times over a  
8 number of years.

9 Q. Have you ever served a peer reviewer for any medical  
10 journal?

11 A. Yes, I do, for a number of years in occupational  
12 medicine.

13 Q. Is asbestos something of special interest to you in terms  
14 of your professional career in occupational medicine?

15 A. Yes, it is.

16 Q. And how long has this been something of interest for you?

17 A. I guess it's got to be 25 years now.

18 Q. Approximately how many patients with asbestos-related  
19 diseases have you seen and treated over the course of your  
20 career?

21 A. Well, it's probably hard for me to give a good number to  
22 that, but it's definitely in the hundreds, could be 1,000  
23 people.

24 Q. Have you ever given professional presentations to other  
25 medical doctors regarding asbestos disease in the past?



Welch - Direct - Finch

1 A. Yes, I do that on a regular basis.

2 Q. Have you ever been recognized by a court as an expert in  
3 the diagnosis of asbestos-related diseases?

4 A. A number of times, yes.

5 Q. Have you ever been recognized as an expert in  
6 epidemiology issues related to asbestos diseases?

7 A. Yes, I have.

8 Q. Have you ever been asked to testify before the United  
9 States Congress on matters relating to diagnosis of  
10 asbestos-related diseases?

11 A. Yes, I have.

12 Q. Can you describe that for us?

13 A. Yes, I testified on two occasions related to a Senate  
14 bill that was voted out of the judiciary committee recently to  
15 establish national asbestos trust fund for asbestos-related  
16 diseases.

17 Q. And what were the subject matters of your testimony  
18 before the United States Congress?

19 A. It was really about the nature of the asbestos-related  
20 disease, some of the same questions that we'll be talking  
21 about here today, which is what disease is related to  
22 asbestos, how can you tell that they're related, how much  
23 functional impairment is necessary, how much asbestos is  
24 needed to cause cancer. Because the purpose of the bill was  
25 to establish a trust fund, establish the amount of money that

Welch - Direct - Finch

1 was necessary and establish the medical criteria for  
2 compensation.

3 Q. Could you turn in the witness binder on your ledge there  
4 to Plaintiffs' Exhibit 23, Dr. Welch?

5 A. Yes, I have it.

6 Q. Is Plaintiffs' Exhibit 23 a current copy of your  
7 curriculum vitae?

8 A. Yes, it is.

9 MR. FINCH: Your Honor, at this time, plaintiff would  
10 offer Exhibit 23 into evidence.

11 MR. FRIEDMAN: No objection, your Honor.

12 THE COURT: 23 is in evidence.

13 (PLAINTIFF EXHIBIT P-23 WAS RECEIVED IN EVIDENCE.)

14 MR. FINCH: Your Honor, at this point, I would  
15 proffer Dr. Laura Welch as an expert in internal medicine,  
16 occupational medicine with an expertise in asbestos-related  
17 diseases and the epidemiology of asbestos-related diseases.

18 THE COURT: Any question on qualification?

19 MR. FRIEDMAN: Not on those issues, your Honor.

20 THE COURT: All right. We certainly find the expert  
21 qualified to proceed.

22 MR. FINCH: Thank you, your Honor.

23 BY MR. FINCH:

24 Q. Dr. Welch, can you describe generally the nature of the  
25 services that you have provided to the Asbestos Claimants

Welch - Direct - Finch

1 Committee in the Federal Mogul bankruptcy case?

2 A. Yes. Generally I've provided my opinion on certain  
3 aspects of asbestos-related disease and produced a report with  
4 those opinions.

5 Q. Let's go to the substance of your opinions.

6 Dr. Welch, what cancers are caused by exposure to  
7 asbestos?

8 A. Mesothelioma. Lung cancer. Colon cancer. Laryngeal and  
9 pharyngeal cancer.

10 Q. What non-malignant diseases are caused by asbestos  
11 exposure?

12 A. Asbestosis, asbestos-related pleural plaques, and to some  
13 degree of obstructive lung disease.

14 Q. There's been quite an amount of discussion of asbestosis,  
15 can you give the technical medical definition of asbestosis?

16 A. Well, it's lung fibrosis that's caused by asbestos.

17 Q. Could you turn in your book to Exhibit 28, Plaintiffs'  
18 Exhibit 28?

19 A. I have that.

20 Q. Do you recognize Plaintiffs' Exhibit 28?

21 A. Yes, it's a section from the American Medical  
22 Association, the Guide to the Evaluation of Permanent  
23 Impairment, Fifth Edition.

24 Q. What's the AMA definition of impairment that's found at  
25 Page 2 of the document?

Welch - Direct - Finch

1 A. Impairment is, I quote from here, a loss of use or  
2 derangement of any body part, organ system, or organ function.

3 Q. Is a pleural plaque an impairment by that definition?

4 A. Yes, it is.

5 Q. Is there -- let me back up.

6 Do you have an opinion to a reasonable degree of  
7 medical certainty as to whether someone can have suffered an  
8 actual decline in their own lung function as a result of  
9 asbestosis or another a disease yet have pulmonary function  
10 test that falls within the normal range?

11 A. Yes, I have an opinion and, yes, it is that someone can  
12 have a decline even though they're pulmonary function is  
13 within the population normal range.

14 Q. Can you explain why you hold the opinion that someone can  
15 have actually suffered a declined in lung function even though  
16 their pulmonary function test score results fall within the  
17 population normal range?

18 A. Yes. The normal range that we use for pulmonary function  
19 testing, there are a set of different predictives, what we  
20 call predictives, and they vary very little. They're pretty  
21 much based by testing people who are not known to have lung  
22 disease and creating a range of normal and that range is  
23 fairly big. If it's. Let's say my normal is 100 percent, the  
24 best estimate of what 100 percent would be for me ranges  
25 between 80 and 120 percent of that normal. So I could lose --

Welch - Direct - Finch

1 if I started at a high normal -- if my normal was really  
2 higher than the average for the population, I could lose  
3 easily 20 percent of my lung function before I dropped below  
4 80 percent of the population predictive, because the  
5 population predictive is really an average across a whole  
6 range of people. And people are different, people have  
7 different body types primarily, and so even though the  
8 predictives are adjusted based on age, height, and sex,  
9 there's still a lot of variation in the normal between people.  
10 We know that from circumstances where we're able to measure  
11 people periodically. Over a period of time, there is some  
12 information on loss of lungs function, and that's how we know  
13 what happens with aging, and people can lose, as I said 20  
14 percent, maybe more, and still be within the normal range on a  
15 population basis.  
16 Q. You gave an example of someone who starts out above the  
17 normal range, if 100 is defined as the normal. What about  
18 someone who goes from say 95 to 85, would they have suffered a  
19 decline in lung function?  
20 A. Yes.  
21 Q. And where would they score on a pulmonary function test?  
22 A. They're still normal. We use 80 percent as the cutoff  
23 between normal and abnormal. There's a more precise measure,  
24 lower limits of normal, generally it's about 80 percent of  
25 predictive. You can lose lung function anywhere down to that

—Welch - Direct - Finch—

1 80 percent before you're called abnormal unless we have had  
2 the opportunity to measure you over time.

3 Q. Do you have an opinion to a reasonable degree of medical  
4 certainty as to whether functional impairment is required to  
5 diagnosis someone with an asbestos-related non-malignant  
6 disease such as asbestosis?

7 A. No, it's not required. The diagnosis is based on history  
8 of exposure and appropriate changes in the lung measured  
9 either with pathology or using more with radiology. And the  
10 American Thoracic Society has a statement about the diagnosis  
11 of asbestosis and states clearly that functional impairment is  
12 not necessary for that diagnosis.

13 Q. Could you turn in your book to Plaintiffs' Exhibit 25.

14 A. Yes.

15 Q. Is that the American Thoracic Society statement you were  
16 referring to earlier?

17 A. Yes, it is.

18 MR. FINCH: Your Honor, at this point we would offer  
19 the 2004 ATS statement, Plaintiffs' Exhibit 25. This is one  
20 of the exhibits that we agreed could come in during the  
21 cross-examination of Dr. Weill as well. So we're offering it  
22 both for purposes to use with Dr. Welch and also in our  
23 cross-examination of Dr. Weill who is not here. His testimony  
24 is offered and it was offered in the Owens Corning case, and  
25 is part of the agreement because he's been in a car wreck, we

Welch - Direct - Finch

1 offered certain documents that we would use on direct and  
2 cross along with his report in Federal Mogul, Plaintiffs'  
3 Exhibit 25 is one of those documents.

4 MR. FRIEDMAN: Mr. Finch has accurately recounted our  
5 agreement and we have no objection to these document being  
6 introduced.

7 THE COURT: Then P-25 is in evidence.  
8 (PLAINTIFF EXHIBIT P-25 WAS RECEIVED IN EVIDENCE).

9 BY MR. FINCH:

10 Q. Dr. Welch, do you regard the 2004 American Thoracic  
11 Society statement as authoritative?

12 A. Yes, I do.

13 Q. Can you describe to the Court how this statement was  
14 promulgated? Well, first of all, back up. What is the  
15 American Thoracic Society?

16 A. It's a professional society of people interested in and  
17 trained in pulmonary medicine, lung disease.

18 Q. And could you describe to the Court your understanding of  
19 how this official statement was promulgated?

20 A. The American Thoracic Society has several different kinds  
21 of documents they produce and they have a set process that  
22 they follow for each one. This one is a diagnosis consensus  
23 statement, which essentially means that they gather together a  
24 group of experts, come up with a document, sent it through a  
25 peer review process, and through approval through the

Welch - Direct - Finch

1 organization of the ATS before publication.

2 Q. Focusing your attention on the first page of Plaintiffs'  
3 Exhibit 25 on the bottom right hand corner, is this the basis  
4 or part of the basis for your view that functional impairment  
5 is not necessary for the diagnosis of a nonmalignant  
6 asbestos-related disease?

7 A. That's correct.

8 Q. Could you just read that into the record.

9 A. There is the one sentence at the bottom that's follows  
10 the criteria. It says: Demonstration of functional  
11 impairment is not required for the diagnosis of nonmalignant  
12 asbestos-related disease.

13 Q. Was there a predecessor to the 2004 ATS statement on the  
14 diagnosis of asbestos-related nonmalignant diseases?

15 A. There was previously a document published bite ATS in  
16 1986.

17 Q. Could you turn in your book to Plaintiffs' Exhibit 26.

18 A. And that is that document.

19 MR. FINCH: Your Honor, at this time we'd offer  
20 Plaintiffs' Exhibit 26. Again, this is one of the documents  
21 we used with Dr. Weill.

22 MR. FRIEDMAN: Without objection, your Honor.

23 THE COURT: P-26 in evidence.

24 (PLAINTIFF EXHIBIT P-26 WAS RECEIVED IN EVIDENCE).

25 BY MR. FINCH:



Welch - Direct - Finch

1 Q. And this statement also states that functional impairment  
2 is not required to diagnose a nonmalignant disease?

3 A. That's correct.

4 Q. You mentioned in your answer to my question earlier  
5 something called the ILO scale. Could you briefly describe  
6 for the Court how the ILO scale works?

7 A. Um-hum. The ILO scale is a descriptive language, kind of  
8 shorthand way of describing what one sees on an x-ray and it  
9 classifies the x-ray by its -- the type of markings and what's  
10 call profusion, which is the density of markings. The type of  
11 markings are given letters, and then the profusion, which is  
12 what people tend to focus on when they're describing the  
13 extent of scarring, the profusion goes from zero, which is  
14 normal, to one, two, three. And three is more severe than  
15 two, two is more severe than one. When a reader uses that  
16 classification, they take the x-ray of the individual and put  
17 it up next to the standard film, next to the one film or the  
18 zero film, the one film, two film, to decide where it goes and  
19 then describes the film as 1/1, 1/2. Where the first number  
20 is the number that they're classifying, they're classifying it  
21 as at 1, 2, 3; 0, 1, 2, 3. The second number is a way of  
22 saying I considered this other classification. So if one says  
23 zero, the reader is saying it's an abnormal x-ray, but they  
24 considered it normal. 1/2 is a Category 1 x-ray, which they  
25 considered calling a Category 2. So, it's a very descriptive